NGDA Dataset Report

Official NGDA Title: Outer Continental Shelf 200 Nautical Mile Limit - Gulf Of Mexico Region NAD27

Metadata Record Title: Outer Continental Shelf 200 Nautical Mile Limit - Gulf Of Mexico Region NAD27

A–16 NGDA Theme: Water - Oceans and Coasts

Executive NGDA Theme Champion(s):

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Metadata:

Registration Status: Complete

Registered on 3/8/2015

GeoPlatform Link*: https://www.geoplatform.gov/node/243/2b8f1fe4-207b-4ebd-8faf-b7e00ac9268f

Data.gov Metadata Link*: http://catalog.data.gov/harvest/object/f43d6c78-a54d-4478-8706-6b84cd715919/html

*If the metadata has been updated and reharvested after publication of this report, the link may no longer be valid. The dataset may be searched for manually in Data.gov or GeoPlatform.gov.

NGDA Lifecycle Maturity Assessment (LMA) Report

Time Frame:

Baseline assessment responses include dataset activities from 1998 to 2015.

LMA Submission:

Status: Complete

Date: 9/21/2015

Extension Requested: No

LMA Reviewer(s):

Supervisor: Did not review

Theme Lead: Tony.Lavoi@noaa.gov

Executive Champion: Did not review

SAOGI*: Did not review

Other: Did not review

LMA Verifier:

Name: Tony Lavoi

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Attachments:

To get access to any attachments referenced in the report, email the LMA Help Desk at NGDA_LMA_help@fgdc.gov. Please use the subject "Dataset Report Attachment(s)" and indicate the associated official NGDA title.

*Senior Agency Official for Geospatial Information (SAOGI)

Lifecycle Maturity Assessment (LMA) Summary

Overall Maturity:

Managed; Predictable

General Questions: 82%

Mature; Consistent

Stage 1 - Define/Plan: 36%

Transition; Transformation

Stage 2 - Inventory/Evaluate: 100%

Optimized; Established

Stage 3 - Obtain: 100%

Optimized; Established

Stage 4 - Access: 100%

Optimized; Established

Stage 5 - Maintain: 28%

Planned; Initial Development

Stage 6 - Use/Evaluate: 66%

Managed; Predictable

Stage 7 - Archive: 33%

Transition; Transformation

NGDA Dataset Maturity Definitions:

How To Calculate Maturity: https://www.geoplatform.gov/sites/default/files/How_to_Calculate_Maturity.pdf

Maturity	Maturity Characteristics for All Lifecycle Stages
Optimized; Established Rank = 5	Dataset meets virtually all business needs of all users. The dataset is considered authoritative by owners and secondary users. It is curated across all stages of the approved lifecycle. Future needs are defined on a regular basis and resources for addressing both current and future business requirements are available.
Mature; Consistent Rank = 4	Dataset meets all the business needs of the primary owner and most of the secondary users. The dataset is curated and used as authoritative by the primary owner. Dataset is used widely by secondary users actively engaged in sustaining the dataset. Future needs are identified and steps are planned to address these. All stages are supported and reviewed on a recurring basis. The dataset is well managed in relation to the approved lifecycle.
Managed; Predictable Rank = 3	Dataset meets a significant number of the business needs of the primary owner and is widely used as an authoritative resource by secondary users. Benchmark activities are occurring in at least four of the approved lifecycle stages. Management practices in relation to the approved lifecycle is moderate but consistent. Dataset is integrating changing business requirements in lifecycle stages impacting overall maturity.
Transition; Transformation Rank = 2	Dataset meets business needs of the primary owner and has moderate use by secondary users. Benchmark activities are occurring in at least three stages. Efforts to integrate funding, include partners, and obtain data are not supported in a sustained manner. Management practices in relation to the stages of the approved lifecycle is limited.
Planned; Initial Development Rank = 1	Dataset limited in meeting business needs of the primary owner. Benchmark activities in the approved lifecycle are just starting to consider secondary uses, partnerships are forming to support additional dataset uses. Dataset development is in a very early stage. Minimal or limited management against the benchmarks in the approved lifecycle.
No Activity Rank = no activity	Dataset meets project or local business needs of the primary owner, secondary or additional uses or users were not considered, not recognized as an authoritative data or is part of a similar dataset. Not managed to any of the benchmarks in the approved lifecycle.

General Questions for All Stages

1) Is there a recurring process to obtain funding for all lifecycle stages of this dataset?

Answer: Funding support is part of agency budget on a recurring basis, funding is consistent and tied to business processes, and supports all lifecycle stages.

Justification Comment: **Attachment(s):** 0

The Outer Continental Shelf (OCS) 200 Nautical Mile Limit (aka “Exclusive Economic Zone Limit” aka “Continental Shelf Boundary”) is a Bureau of Ocean Energy Management approved boundary of the OCS intended for leasing purposes.

Leasing of the energy resources (i.e. oil, gas, minerals, wind, wave) in federal waters cannot occur unless blocks that are seaward of the 200 Nautical Mile Limit (200 NML) are identified. Leasing is not allowed in international waters (beyond 200 nautical miles) unless approved by a treaty between countries. Because the 200 NML is so essential to the needs of the Bureau of Ocean Energy Management (BOEM), the duties associated with mapping this boundary are included in the Position Descriptions for BOEM Cartographers. These same duties are also described as critical elements in the Employee Performance Appraisal Plans for BOEM Cartographers.

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2) Is there a process in place to ensure that open government and transparency guidelines are followed in all lifecycle stages for this dataset?

Answer: Process is published as appropriate with respect to sensitivity requirements, process is transparent, published appropriately.

Justification Comment: **Attachment(s):** 0

BOEM Official Protraction Diagrams (OPDs) and Supplemental Official Block Diagrams (SOBDs) show OCS blocks and reflect the location of the 200 NML. The natural processes of coastal accretion and avulsion cause changes to the baseline which will periodically trigger the need to revise the 200 NML. However, this boundary has not been updated since it first appeared on OPDs in 2000. If the boundary is updated (or replaced with the official Exclusive Economic Zone boundary) in the future, BOEM will publish a Notice in the Federal Register that announces the availability (for download) of the revised maps on a specific BOEM web page. The Notice will describe the specific maps that were revised, as well as the reason why the maps were revised.

The SOBD is generated for a single block when a boundary passes through it. An SOBD is not created unless a boundary (such as the OCS 200 NML) passes through the particular block.

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3) Are there processes and tools in place so that staff are sufficiently knowledgeable to ensure a continuity of the dataset for all stages of the lifecycle, especially during staffing transitions?

Answer: Processes and tools to ensure dataset continuity are under development.

Justification Comment: **Attachment(s):** 0

The history of the OCS 200 NML in the Gulf of Mexico Region (GOMR) has been documented separately from the metadata. Because this boundary will likely be replaced with the official Exclusive Economic Zone (EEZ) boundary, and because BOEM is replacing its antiquated mapping software with GIS software in 2016, the new process and tool documentation will be developed in the near future.

STAGE 1 - Define/Plan

4) Are user and business requirements defined and formalized?

Answer: A recurring process exists for gathering partners/ stakeholders requirements is in place and is in the beginning stages of implementation.

Justification Comment: **Attachment(s):** 0

The primary customers for OPDs and SOBDs are energy industry companies. Oil and gas companies have historically been the biggest users of these BOEM maps. A redesign of the format for both products is being implemented, primarily so that the maps can be used for other purposes. It is expected that partners/stakeholders will agree that replacing the 200 NML with the official EEZ boundary would be a positive change and would help alleviate any confusion between the two boundaries.

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5) How are partners/stakeholders involved in the requirements collection process?

Answer: Ad hoc process is used for involving Partners/stakeholders in identifying requirements.

Justification Comment: **Attachment(s):** 0

Engaging with users of BOEM OPDs and SOBDs has occurred at meetings with industry companies and coastal state governments. Comments were collected on an informal basis. Presentations given by cartographers from BOEM at mapping conferences have also been events where comments and suggestions about these mapping products have been solicited and gathered. It is expected that partners/stakeholders will agree that replacing the 200 NML with the official EEZ boundary would be a positive change and would help alleviate any confusion between the two boundaries.

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6) Is there a quality assurance process for the dataset?

Answer: Process under development.

Justification Comment: **Attachment(s):** 0

Quality control measures for OCS boundaries (such as the 200 NML) will be included in a future Standard Operating Procedure (SOP) document for creation of OPDs and SOBDs.

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7) Is there a process to evaluate the sensitivity, privacy, and confidentiality of this dataset?

Answer: Process to define under development.

Justification Comment: **Attachment(s):** 0

Process to evaluate the sensitivity, privacy, and confidentiality of OCS boundaries as shown on OPDs and SOBDs will be included in a future SOP for creation of these mapping products.

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8) Are defined data standards used in collecting, processing, and/or rendering the data?

Answer: Standards being researched and/or under development.

Justification Comment: **Attachment(s):** 0

While BOEM has defined measures for data precision, there are not yet formal data standards.

STAGE 2 - Inventory/Evaluate

9) Is there a process for determining if data necessary to meet requirements already exist from other sources (either within or outside the agency) before collecting or acquiring new data?

Answer: Process for determining appropriate data is being reused fully implemented, reviewed, and updated on a regular basis.

Justification Comment: **Attachment(s):** 0

The 200 NML was developed by the Minerals Management Service (the predecessor bureau of BOEM) in 2000. This was done because the National Oceanic and Atmospheric Administration (NOAA) had not yet created a digital EEZ boundary for the GOMR. The NOAA EEZ boundary was generated in 2007, and is recognized as the official boundary for showing the 200 nautical mile limit of the U.S. in the OCS. The 200 NML dataset will be replaced with the NOAA EEZ boundary in the near future.

STAGE 3 - Obtain

10) Is there a process for obtaining data in relation to this dataset?

Answer: Process is fully implemented, reviewed and updated on a regular basis.

Justification Comment: **Attachment(s):** 0

The 200 NML dataset is 100% complete for GOMR. The 200 NML dataset will be replaced with the NOAA EEZ boundary in the near future.

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11) Is the metadata in a FGDC endorsed geospatial metadata standard?

Answer: Metadata is available in a format endorsed by the FGDC, it fully describes the dataset and provides all the information required to make the dataset discoverable, accessible, and usable.

Justification Comment: **Attachment(s):** 0

The 200 NML and metadata are available for download on http://www.boem.gov/Oil-and-Gas-Energy-Program/Mapping-and-Data

and just the metadata at http://metadata.boem.gov/geospatial/

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12) How complete is the geographic coverage as defined in the requirements for the dataset?

Part 1 Answer: Business requirements for cyclic updates identified and a process is in place.

Part 2 Answer: Dataset has presently attained the greatest geographic coverage as defined by the current requirements or roughly 100%.

Justification Comment: **Attachment(s):** 0

Dataset for the GOMR is 100% complete per current requirement. However, the BOEM 200 NML is not recognized as the official EEZ boundary.

STAGE 4 - Access

13) Do you have a process for providing users access to the data in an open digital machine readable format?

Answer: User access process is fully implemented, data is available, process is reviewed and updated on a recurring basis.

Justification Comment: **Attachment(s):** 0

The 200 NML dataset and metadata is available for download in ArcGIS shapefile format at http://www.boem.gov/Oil-and-Gas-Energy-Program/Mapping-and-Data

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STAGE 5 - Maintain

14) Is there a maintenance process for updating and storing the dataset?

Answer: Dataset maintenance process is under development.

Justification Comment: **Attachment(s):** 0

The 200 NML has never been revised or updated.

The maintenance process for all OCS boundaries will be included in a future Standard Operating Procedure (SOP) document for creation of OPDs and SOBDs.

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15) Is there an error correction process as part of dataset maintenance?

Answer: Error correction process under development.

Justification Comment: **Attachment(s):** 0

Error correction process will be included in the SOP document.

STAGE 6 - Use/Evaluate

16) Is there a process to determine if the dataset meets user needs?

Answer: Process is being developed to determine if user needs are being addressed or met.

Justification Comment: **Attachment(s):** 0

It is expected that partners/stakeholders will agree that replacing the 200 NML with the official NOAA EEZ boundary would be a positive change and would help alleviate any confusion between the two boundaries.

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17) Is there a process to provide users information on how to access and properly use the dataset?

Answer: Process is fully implemented supporting access and proper use, process is reviewed on a recurring basis.

Justification Comment: **Attachment(s):** 0

The 200 NML and metadata are available for download on http://www.boem.gov/Oil-and-Gas-Energy-Program/Mapping-and-Data

and just the metadata at http://metadata.boem.gov/geospatial/

Proper use of the dataset is described in the metadata.

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18) Are the business processes and management practices assessed to meet changing technology?

Answer: Assessment process implementation started for taking advantage of changing technology.

Justification Comment: **Attachment(s):** 0

The 200 NML for the GOMR was generated using mapping software that was developed in-house by the Minerals Management Service, the predecessor bureau of BOEM. Starting in 2016, the BOEM Mapping and Boundary Branch (MBB) will be using the Esri, Inc. ArcGIS suite of mapping software to generate all OCS boundaries. Standard Operating Procedures (SOPs) will be written and implemented to ensure the process is accurate and efficient.

STAGE 7 - Archive

19) Is there an archiving process for the dataset?

Answer: Archival and/or disposition processes are in development.

Justification Comment: **Attachment(s):** 0

The BOEM 200 NML will be archived when it is replaced with the official NOAA EEZ boundary.

BOEM is transferring the original nautical charts, topographic maps, and hydrographic surveys (approximately 700 total) that were used as the source for OCS boundary datasets to NARA for permanent storage. A similar process will be documented for transfer of the digital OCS boundaries that have been superseded or otherwise made null and void.